CLAIMS

- 1. Process for the preparation of doped pentasil-type zeolite, which process comprises the steps of:
- a) preparing an aqueous precursor mixture from a silicon source, an aluminium source, and doped non-zeolitic seeds, and
 - b) thermally treating the precursor mixture to form a doped pentasil-type zeolite.
- 10 2. The process of claim 1 wherein the doped pentasil-type zeolite is doped ZSM-5.
 - 3. The process according of claim 1 wherein the non-zeolitic seeds are X-ray amorphous.

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- 4. The process according of claim 1 wherein the non-zeolitic seeds are milled crystalline materials that have a relative crystallinity of not more than 75%.
- 5. The process of claim 4 wherein the milled crystalline materials have a relative crystallinity of not more than 60%.
 - 6. The process of claim 5 wherein the milled crystalline materials have a relative crystallinity of not more than 50%.
- 25 7. The process of claim 1 wherein the non-zeolitic seeds are crystalline materials other than zeolites.

- 8. The process of claim 1 wherein the non-zeolitic seeds are doped with a dopant selected from the group consisting of Ce, La, Zr, Mn, Fe, Ti, Cu, Ni, Zn, Mo, W, V, Sn, Pt, Pd, Ga, B, and P.
- 5 9. The process of claim 1 wherein the silicon source is selected from the group consisting of sodium (meta)silicate, stabilised silica sols, silica gels, polysilicic acid, tetra ethylortho silicate, fumed silicas, precipitated silicas, and mixtures thereof.
- 10 10. The process of claim 1 wherein the aluminium source is selected from the group consisting of Al₂(SO₄)₃, AlCl₃, AlPO₄, Al₂(HPO₄)₃, Al(H₂PO₄)₃, aluminium trihydrate (Al(OH)₃), thermally treated aluminium trihydrate, (pseudo)boehmite, aluminium chlorohydrol, aluminium nitrohydrol, and mixtures thereof.

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11. The process of claim 1 wherein a shaping step is performed between steps a) and b).